

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>ARG-PB60052</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/EP2004/003783</b>	International filing date (day/month/year) <b>06/04/2004</b>	(Earliest) Priority Date (day/month/year) <b>08/04/2003</b>
Applicant <b>GLAXO GROUP LIMITED</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box II).

3.  **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

**PLEUROMUTILIN DERIVATIVES, PROCESS FOR THEIR PREPARATION AND USES THEREOF**

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/003783

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>					
IPC 7	C07C323/62	C07D213/79	C07D213/80	A61K31/435	A61K31/22
	A61P31/04				

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07C C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 059 559 A (BIOCHEMIE GMBH) 4 June 1971 (1971-06-04) claims 1-12; example 17 -----	1-4,6-9, 12
Y	EP 0 013 768 A (SANDOZ AG) 6 August 1980 (1980-08-06) page 3, line 10 - line 17; claims 1-4; example 13 -----	1-3,6-9, 12
Y	WO 99/21855 A (SANDERSON FRANCIS DOMINIC ; DABBS STEPHEN (GB); HUNT ERIC (GB); FRYDRY) 6 May 1999 (1999-05-06) cited in the application claims 1-3 ----- -/-	1-3,6-9, 12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

24 August 2004

Date of mailing of the international search report

31/08/2004

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/003783
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EGGER H ET AL: "NEW PLEUROMUTILIN DERIVATIVES WITH ENCHANCED ANTIMICROBIAL ACTIVITYII. STRUCTURE-ACTIVITY CORRELATIONS"</p> <p>JOURNAL OF ANTIBIOTICS, JAPAN ANTIBIOTICS RESEARCH ASSOCIATION, TOKYO, JP, vol. 29, no. 9, September 1976 (1976-09), pages 923-927, XP001022880 ISSN: 0021-8820 cited in the application page 926, line 1 - line 7; table 1</p> <p>-----</p>	1-9,12
A	<p>WO 02/22580 A (ASCHER GERD ; BERNER HEINZ (AT); BIOCHEMIE GMBH (AT); HILDEBRANDT JOHA) 21 March 2002 (2002-03-21) claims 1-11</p> <p>-----</p>	1,6-9,12

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/003783

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 10, 11 because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 10 and 11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP2004/003783

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
FR 2059559	A 04-06-1971	AT 301753 B CA 986102 A1 CA 970387 A2 CS 172913 B2 DE 2036027 A1 DE 2066118 B1 DK 66077 A ES 382075 A1 ES 388613 A1 ES 388614 A1 FR 2059559 A5 GB 1312148 A IL 34980 A JP 50010857 B JP 50010590 B NL 7010444 A PL 79777 B1 PL 88867 B1 SE 369712 B US 3979423 A US 4060542 A ZA 7005091 A			25-09-1972 23-03-1976 01-07-1975 28-01-1977 18-02-1971 28-08-1980 16-02-1977 01-04-1973 16-02-1974 16-02-1974 04-06-1971 04-04-1973 10-09-1974 24-04-1975 22-04-1975 27-01-1971 30-06-1975 30-10-1976 16-09-1974 07-09-1976 29-11-1977 23-02-1972
EP 0013768	A 06-08-1980	AT 6062 T AU 533691 B2 AU 5453580 A CA 1125778 A1 CY 1353 A DE 2966635 D1 DK 4280 A ,B, EP 0013768 A1 ES 8101536 A1 FI 800024 A ,B, HK 40587 A IE 49356 B1 IL 59108 A JP 55094359 A KE 3689 A MY 72687 A NZ 192576 A PH 17391 A PT 70682 A US 4428953 A YU 6280 A1 ZA 8000175 A			15-02-1984 08-12-1983 17-07-1980 15-06-1982 24-04-1987 08-03-1984 13-07-1980 06-08-1980 16-03-1981 13-07-1980 29-05-1987 18-09-1985 31-07-1983 17-07-1980 20-02-1987 31-12-1987 31-05-1984 08-08-1984 01-02-1980 31-01-1984 28-02-1983 26-08-1981
WO 9921855	A 06-05-1999	AU 742167 B2 AU 9636198 A BR 9814747 A CA 2307551 A1 CN 1283197 T EP 1028961 A1 WO 9921855 A1 HU 0004040 A2 JP 2001521033 T NO 20002173 A NZ 504203 A PL 340254 A1		20-12-2001 17-05-1999 20-11-2001 06-05-1999 07-02-2001 23-08-2000 06-05-1999 28-05-2001 06-11-2001 05-06-2000 26-11-2002 29-01-2001	

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No  
PCT/EP2004/003783

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9921855	A	TR	200001203 T2	21-08-2000
		US	6281226 B1	28-08-2001
		ZA	9809767 A	28-04-2000
WO 0222580	A 21-03-2002	AT	264843 T	15-05-2004
		AU	9185401 A	26-03-2002
		BR	0113837 A	03-06-2003
		CA	2418538 A1	21-03-2002
		DE	60102936 D1	27-05-2004
		WO	0222580 A1	21-03-2002
		EP	1320525 A1	25-06-2003
		JP	2004509107 T	25-03-2004
		US	2004102482 A1	27-05-2004